

Aniket S

SUMMARY

Experienced CAE Engineer with a solid background in FE modeling and NVH analysis. Skilled in using tools like HyperMesh and Nastran to deliver reliable simulations and support design decisions. Experienced in automating tasks and improving processes with VBA and Python, helping save time and improve efficiency. Known for strong problem-solving skills, analytical thinking, and working well in cross-functional teams.

PROFESSIONAL EXPERIENCE

CAE Engineer | FEV India Pvt. Ltd. | Sep 2022 – Present

- **FEV NVH – Indian OEM**
 1. Full Vehicle TBIW NTF Analysis.
 - Identified critical frequencies of the full vehicle TBIW using NTF analysis and recommended design modifications to enhance noise and vibration performance.
 - Automated comparison of multiple design iterations using Python scripts to visualize and rank results efficiently.

- **FEV TATA ODC**
 1. Developed TBIW and Closure FE model from (zeroth) loop.
 - Performed Modal, BT, Dynamic stiffness and mobility analysis and Suggested design modification.
 - The recommended design changes implemented in first loop and further analysis for the same.
 2. Conducted EDU cradle mounting bracket NVH analysis to resolve compressor modal separation issues.
 3. Modeled subsystem components such as subframe, suspension, front and rear bumpers, and exhaust system.
 4. Performed Modal, FRF, BT, VTF and NTF analysis.
 5. Created batch-run scripts for NVH simulations, significantly reducing manual effort and time.
 6. Automated (.pch file) postprocessing for FRF plotting using VBA to save analysis time.

TECHNICAL SKILLS

- Preprocessing: HyperMesh, ANSA
- Postprocessing: HyperView, HyperGraph, META
- Solvers: MSC Nastran, OptiStruct
- Analysis Areas: NVH, Durability
- Automation: VBA (Excel Macros), Python

PROFESSIONAL AWARD

- Certificate of Appreciation – Nastran Batch Run Process.

EDUCATION

- M.Tech – Heat Power, PCCOE Pune | 2022
- B.E. – Mechanical, NDMVP KBT COE, Nashik | 2017

PUBLICATION

“Numerical Modeling of Reactor Cooling System during Electrochemical Synthesis of Nanoparticles,” Materials Today: Proceedings, Vol. 77, 2023. DOI: 10.1016/j.matpr.2022.11.444

AWARDS & ACHIEVEMENTS

- GATE 2018 Qualified – Mechanical Engineering
- Winner – College Chess Tournament
- Editorial Member – College Magazine

ADDITIONAL INFO

Languages: English, Hindi, Marathi

Interests: Chess, Trekking